10th Class 2021				
Math (Science)	Group-l	PAPER-II		
Time: 20 Minutes	(Objective Type)	Max. Marks: 15		

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

Two linear factors of $x^2 - 15x + 56$ are:

(a)
$$(x-7) & (x+8)$$
 (b) $(x+7) & (x-8)$

(b)
$$(x + 7) & (x - 8)$$

(c)
$$(x-7) & (x-8) \checkmark (d) (x+7) & (x+8)$$

Product of cube roots of unity is: 2-

$$(c) -1$$

If α , β are the roots of $x^2 - x - 1 = 0$, then product of 3the roots 2α and 2β is:

$$(d)$$
 -4

In a proportion a: b::c:d, b and c are called: 4-

- (a) Means
- (b) Extremes
- (c) Third proportional (d) Fourth proportional

If $y^2 \propto \frac{1}{x^3}$, then:

(a)
$$y^2 = \frac{k}{x^3}$$
 (b) $y^2 = \frac{1}{x^3}$

(b)
$$y^2 = \frac{1}{x^3}$$

(c)
$$y^2 = x^3$$

(d)
$$y^2 = k x^3$$

Two square roots of unity are: 6-

- (a) 1, −1 ✓
- (b) 1, ω
- (c) $1, -\omega$
- (d) ω , ω^2

If $A \subseteq B$, then $A \cup B$ is equal to:

(a) A ✓

(b) B

(c) ¢

(d) A - B

8-	The domain of $R = {$	(0, 2)	2), (2, 3), (3, 3), (3, 4)} is:
	(a) {0, 3, 4}	(b)	{2, 3, 4}
	(c) {0, 2, 4}	(d)	{0, 2, 3} ✓
9-	A histogram is a set of adjacent:		
	(a) Squares	(b)	Rectangles ✓
	(c) Circles	(d)	Triangles
10-	The spread or scatterness of observations in a data set is called:		
-	(a) Average	(b)	Central tendency
	(c) Dispersion ✓	(d)	Mean
11-	$\frac{3\pi}{4}$ radians = :		
	(a) 115°	(b)	30°
	(c) 150°	(d)	135° ✓
12-	Line segment joining any point of the circle to the centre is called:		
	(a) Radial segment	(b)	Diameter
	(c) Circumference	(d)	Perimeter
13-	A circle has only one		
	(a) Secant	(b)	Chord
	(c) Diameter	(d)	Centre ✓
14-	The arcs opposite to incongruent central angles of a circle are always:		
	(a) Congruent	(b)	Incongruent ✓
	(c) Parallel		Perpendicular
15-	is called:		between two radii and an arc
	(a) Chord	(p)	Segment
	(c) Sector /	(d)	Diameter